

Date: 16/02/2019

Qty. | Description

1 | CR 15-6 A-F-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96501897

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Further product details

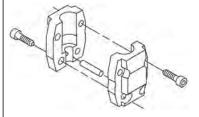
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

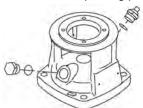
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



The pump head, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.





Date: 16/02/2019

Qty. | Description

The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.

Primary seal:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



The shaft seal is screwed into the pump head.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The base is made of cast iron. The flanges and base are cast in one piece. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate.



Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

Technical data

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -20 .. 120 °C
Liquid temperature during operation: 20 °C



Date: 16/02/2019

Qty. | Description

Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2919 rpm

Rated flow: 17 m³/h
Rated head: 67.3 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS
Curve tolerance: ISO9906:2012 3B

Materials:

Base: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C

16 bar / -20 °C

Type of connection: DIN
Size of inlet connection: DN 50
Size of outlet connection: DN 50
Pressure rating for pipe connection: PN 25
Flange rating inlet: 300 lb
Flange size for motor: FF265

Electrical data:

Motor standard: IEC
Motor type: 132SC
IE Efficiency class: IE3
Rated power - P2: 5.5 kW
Power (P2) required by pump: 5.5 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D V

Rated current: 11 A

Starting current: 1080-1180 %
Cos phi - power factor: 0.87-0.82
Rated speed: 2920-2940 rpm
Efficiency: IE3 89,2%
Motor efficiency at full load: 89.2 %
Motor efficiency at 3/4 load: 90.0 %
Motor efficiency at 1/2 load: 89.6 %

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 92 kg
Gross weight: 114 kg
Shipping volume: 0.285 m³
Danish VVS No.: 385904360

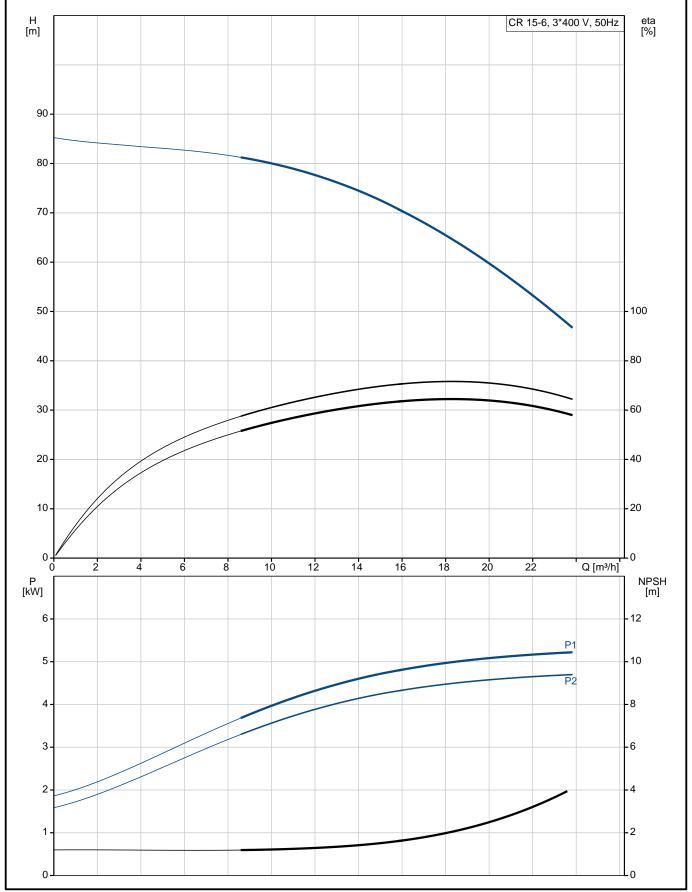


			Date:	16/02/2019	
Qty.	Description				
	Swedish RSK No.:	5823477			



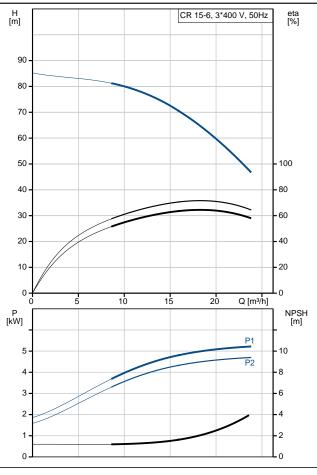
Date: 16/02/2019

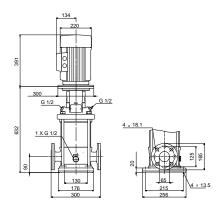
96501897 CR 15-6 A-F-A-E-HQQE 50 Hz

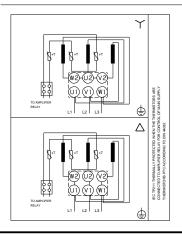




Description	Value
General information:	
Droduct name:	CR 15-6
Product name:	A-F-A-E-HQQE
Product No:	96501897
EAN number:	5700396231402
Technical:	
Pump speed on which pump data are	2010
based:	2919 rpm
Rated flow:	17 m³/h
Rated head:	67.3 m
Head max:	84.7 m
Stages:	6
Impellers:	6
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Base:	Cast iron
	EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
· · · · · · · · · · · · · · · · · · ·	EN 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	60 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
	16 bar / -20 °C
Type of connection:	DIN
. , ре с. селисенен	
Size of inlet connection:	
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50 DN 50
Size of outlet connection: Pressure rating for pipe connection:	DN 50 DN 50 PN 25
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet:	DN 50 DN 50 PN 25 300 lb
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor:	DN 50 DN 50 PN 25 300 lb FF265
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code:	DN 50 DN 50 PN 25 300 lb
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid:	DN 50 DN 50 PN 25 300 lb FF265 F
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid:	DN 50 DN 50 PN 25 300 lb FF265 F
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW 50 Hz
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW 50 Hz 3 x 380-415D V
Size of outlet connection: Pressure rating for pipe connection: Flange rating inlet: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:	DN 50 DN 50 PN 25 300 lb FF265 F Water -20 120 °C 20 °C 998.2 kg/m³ IEC 132SC IE3 5.5 kW 5.5 kW 50 Hz







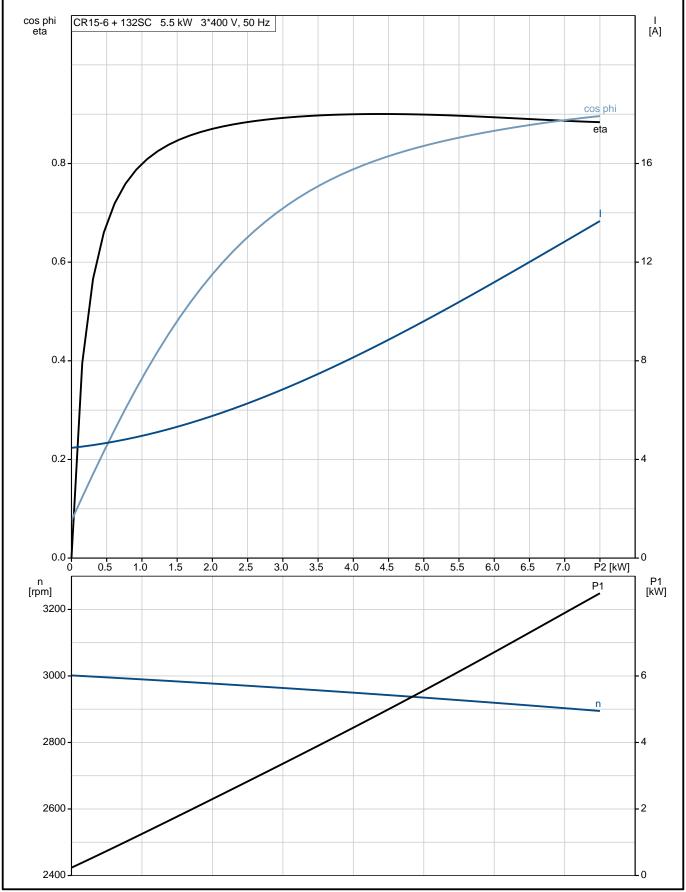


Description	Value
Cos phi - power factor:	0.87-0.82
Rated speed:	2920-2940 rpm
Efficiency:	IE3 89,2%
Motor efficiency at full load:	89.2 %
Motor efficiency at 3/4 load:	90.0 %
Motor efficiency at 1/2 load:	89.6 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17417
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	92 kg
Gross weight:	114 kg
Shipping volume:	0.285 m³
Danish VVS No.:	385904360
Swedish RSK No.:	5823477



Date: 16/02/2019

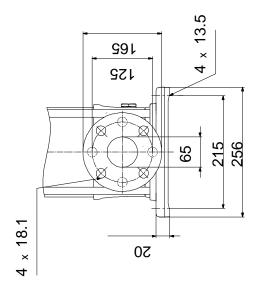
96501897 CR 15-6 A-F-A-E-HQQE 50 Hz

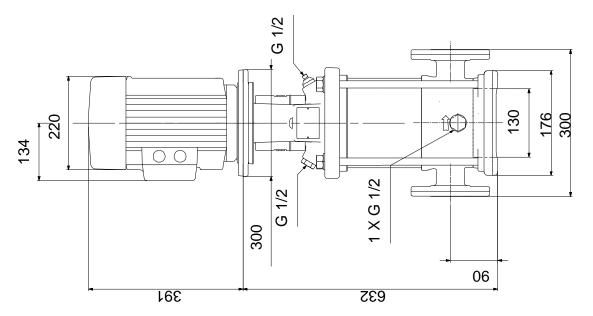




Date: 16/02/2019

96501897 CR 15-6 A-F-A-E-HQQE 50 Hz



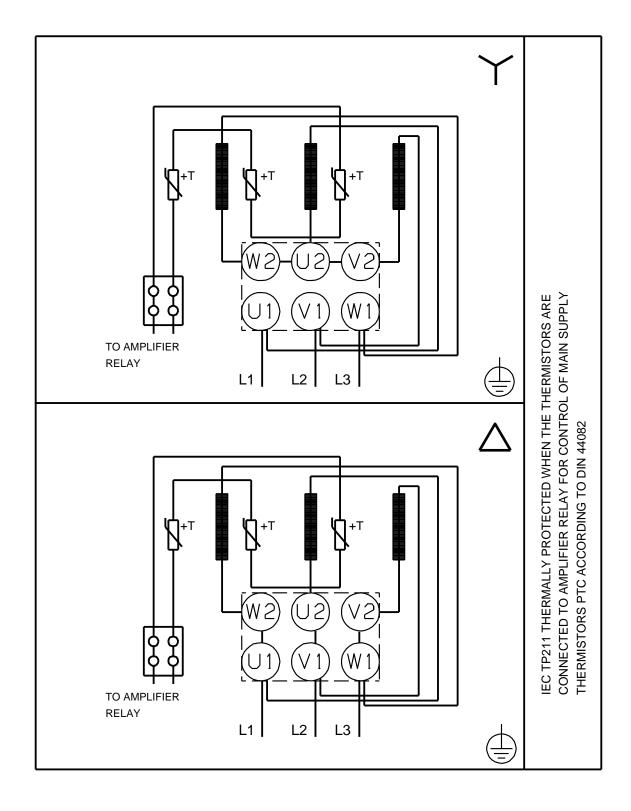


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 16/02/2019

96501897 CR 15-6 A-F-A-E-HQQE 50 Hz

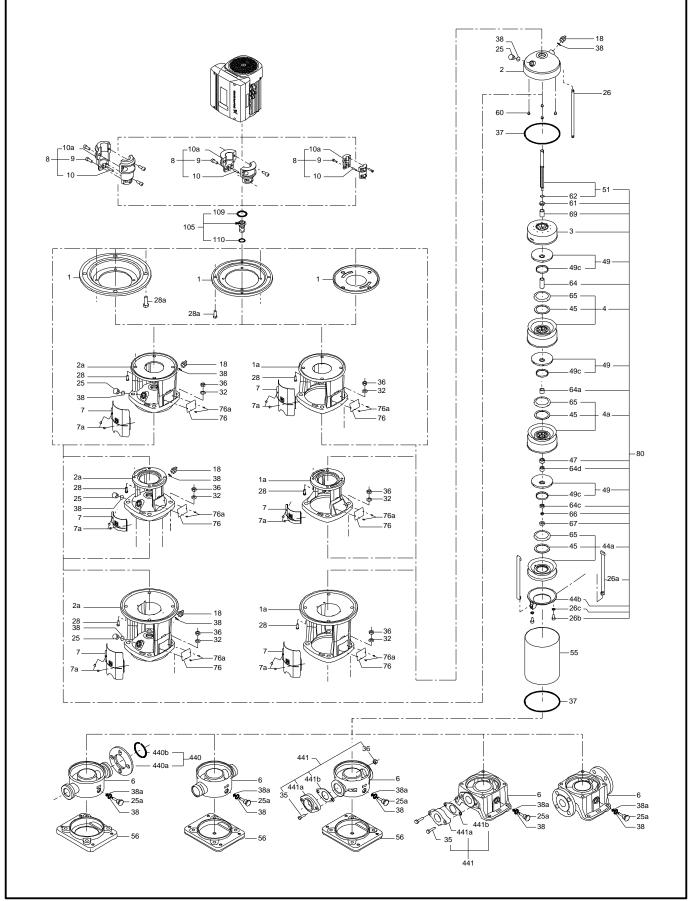


Note! All units are in [mm] unless others are stated.



Date: 16/02/2019

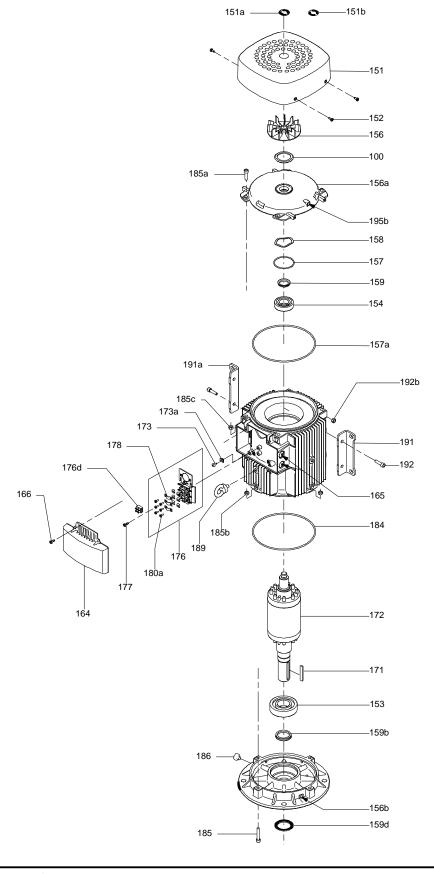
(tm069469 for MECR15,20 standard)





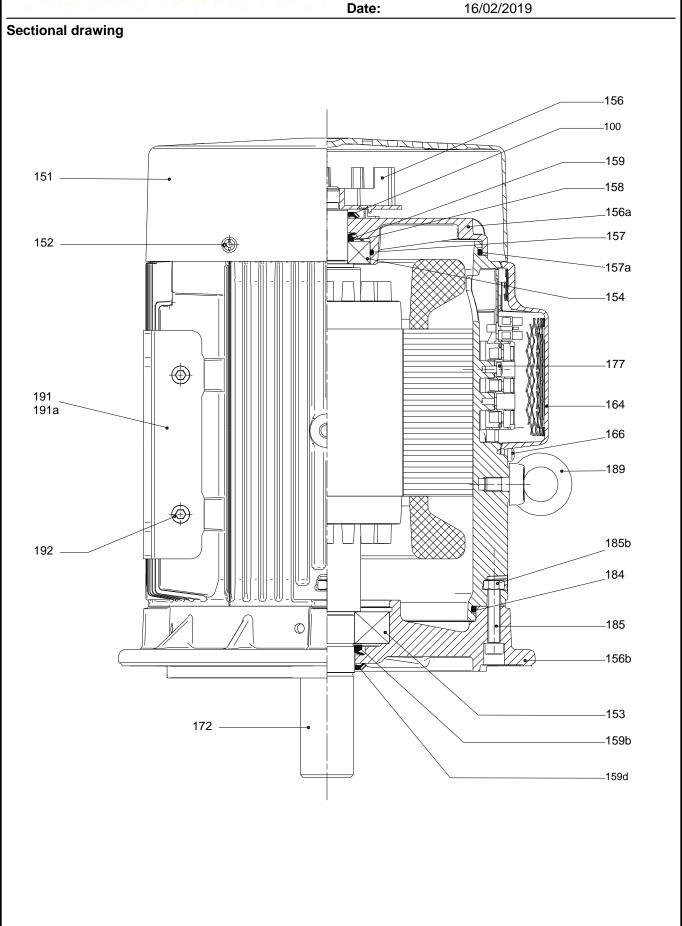
Date: 16/02/2019

Exploded view





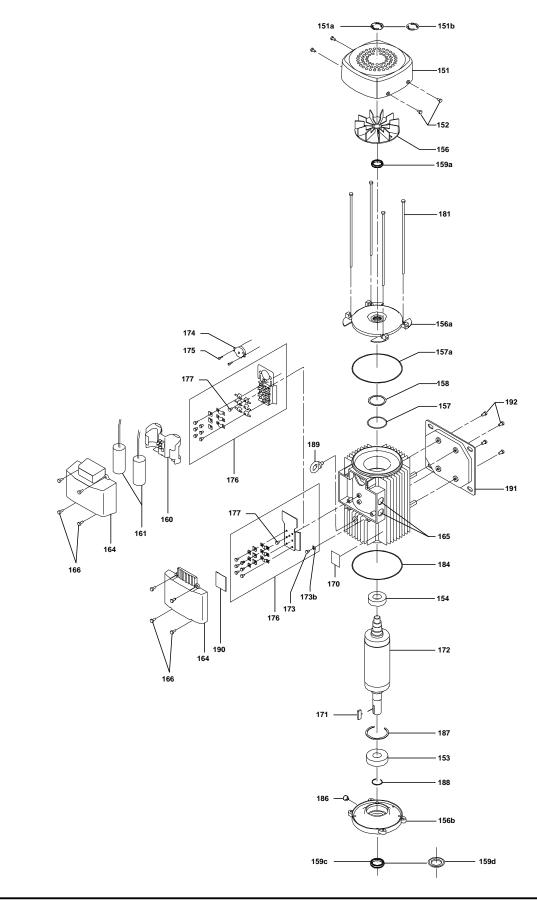
Date:





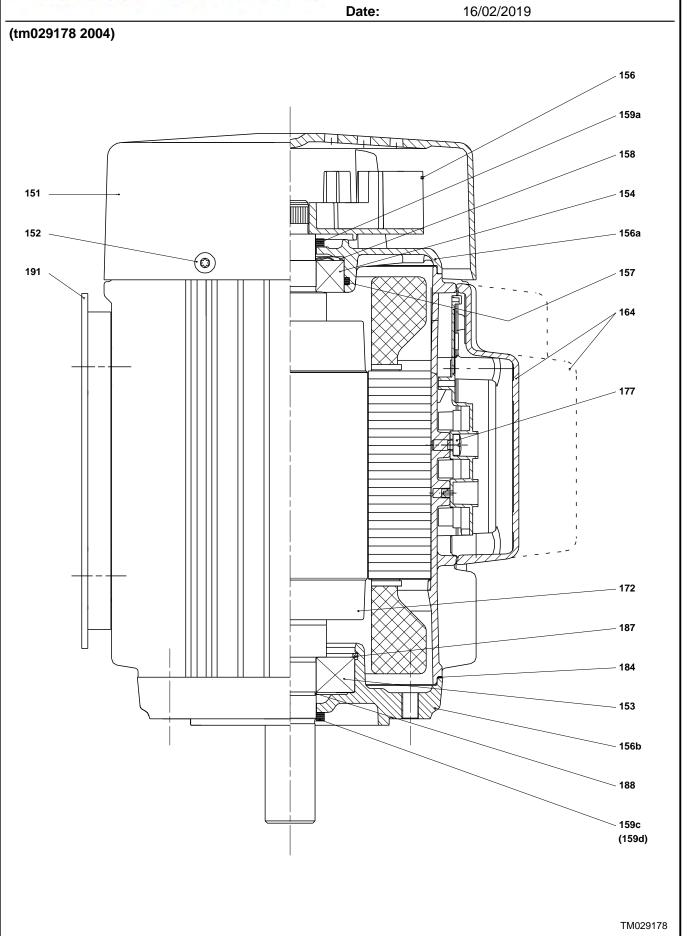
Date: 16/02/2019

(tm029184 0505)



TM029184







Date: 16/02/2019

Spare parts CR 15-6, Product No. 96501897 Valid from 1.1.2011 (1152)

Pos	• • • • • • • • • • • • • • • • • • •	Annotation	Classification Data	Part no.		Unit
-	Kit, chamber stack			96508458	1	pcs
- 80	Chamber stack					1
- 3	Top intermediate chamber					
	Front plate					
	Spare, turbulence optimizer KP					
	Guide vane					
- 4a	Intermediate chamber cpl.					
	Bearing plate					
3	Intermediate chamber					
45a	Neck ring cpl.					
47	Bearing bush					
65	Retainer for upper seal ring					
- 4	Intermediate chamber cpl.					
45a						
65	Retainer for upper seal ring					
26a						
26.0			Designation: DIN 125A			
			Thickness: 1,6			
26.1	b Hex head screw		, , , , , , , , , , , , , , , , , , , ,			
44b						
- 44a						
45a						
65	Retainer for upper seal ring					
47	Bearing ring					
+ 49	Impeller cpl.					
- 51	Shaft, spline, cpl.					
- 31	Bar					
62	Stop ring					
64d						
	. 0		Laurath (mana), 40.7			
640	1 011		Length (mm): 12.7			
64b	1 9		Length (mm): 5.00			
64a	Spacing pipe		Internal diameter: 17,5			
			Length (mm): 17			
64	Spacing pipe		Length (mm): 43.6			
66	Wedge lock washer					
67	Lock nut		Thread: M8			
69	Spacing bush					
-	Kit, coupling			96511351		pcs
	Adjusting fork					1
- 8	Coupling					1
9	Hex socket head cap screw		Designation: DIN 912			
			Length (mm): 25			
			Thread: M10			
10a	Coupling half					
10	Shaft pin		Diameter: 5			
			Length (mm): 26			
-	Kit, coupling guard			96509613	1	pcs
7.a	Combi Slot Torx screw					4
7	Coupling guard					2
-	Kit, gaskets			96509609		pcs
	Gasket					2
24	O-ring					2
37	O-ring					2



Pos	Description	Annotation Classification Data	Part no.	Qty. Ur
38a	O-ring	Diameter: 5,3		1
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		1
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
	- 3	Material type: EPDM		
		Thickness: 2,4		
60	Chrina	11110K11633. 2,4		1
60	Spring			4
415	Gasket			2
441b	Gasket	Internal diameter: 49		2
		Outer diameter: 92		
		Thickness: 2		
	Kit, plug		96511311	1 pc
18	Air vent screw			1
	Spindle			•
	Plug			
25a	=			4
	Drain plug			1
25	Plug			1
38a	O-ring	Diameter: 5,3		1
		Material type: FKM		
		Thickness: 2,4		
38a	O-ring	Diameter: 5,3		1
	-	Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		1
30	O-IIIIg			ı
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		1
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
30	O-IIIIg			
		Material type: EPDM		
		Thickness: 2,4		
	Kit, shaft seal HQQE		96511844	1 pc
	Emery cloth			1
	Grinding device			1
105	Shaft seal	Material type: HQQE		1
	Kit, wear parts	· · · · · · · · · · · · · · · · · · ·	96511824	1 pc
4a	Intermediate chamber cpl.			1
ru	Sand Lifter			ı
	Guide cup			
	Bearing plate			
	Guide vane			
3	Intermediate chamber			
45a	Neck ring cpl.			
47	Bearing bush			
65	Retainer			
26.c	Washer	Decignation: DIN 1251		2
∠U.U	VVASIICI	Designation: DIN 125A		
		Thickness: 1,6		
26.b	Hex head screw			2
45a	Neck ring cpl.			5
47	Bearing ring			1
49c	Wear ring			6
700				_



	Description Specing bush	Annotation Classification Data Part no. Qty	y. Ur
64d	Spacing bush	1. 4.7. \ 40.7	1
64c	Spacing pipe	Length (mm): 12.7	1
64b	Spacing bush	Length (mm): 5.00	1
64a	Spacing pipe	Internal diameter: 17,5	1
		Length (mm): 17	
65	Retainer		5
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
	Motor	85904020 1	рс
	Kit, bearing cpl.	96279803	1
111	Ball bearing	Designation: 6206.2Z.C3.SYN	
153	Angular-contact bearing	2001g/10.1011. 0200.22.00.0111	
157	O-ring	Diameter: 62	
137	O-IIIIg		
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
	Kit, end shield	96279790	1
156a	End shield		
157	O-ring	Diameter: 62	
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
159a	Seal ring		
	Kit, eyebolt	96279825	1
189	Eyebolt	00210020	•
103	Kit, fan	06070760	4
450	•	96279758	1
156	Fan		
159c	Seal ring		
159a	Seal ring		
	Kit, fan cover	96279756	1
151b	Label		
151	Fan cover		
152	Pan head thread forming screw		
	Kit, flange	96279784	1
156b	Flange		
159.c	Seal ring		
186	Drain plug		
	Kit, retaining ring	96279801	1
187	Retaining ring	30270001	•
188	Retaining ring		
100		00070704	1
450-1	Kit, shaft seal	96279764	I
159d	Seal ring		
159c	Seal ring		
	Kit, staybolts	96279793	1
181	Pan head staybolt		
	Kit, terminal board	96279769	1
173a	Base		
173	Pan head thread forming screw	Designation: COMBI TORX T25	
176	Slot cheese head screw	Designation: COMBI TORX T25	
		Length (mm): 10	
		Thread: M5	
176	Terminal		
176	Connecting piece		
176			
	Wire clamp		
176	Terminal board		
177	Pan head screw		
	Kit, terminal box	96279772	1
164	Terminal box cover w/gasket		
166	Pan head thread forming screw		



Pos	Description Motor	Annotation Classification Data Part no. Qty. U 85901556 1 p
		<u>'</u>
	Kit, bearing cpl.	96279803 1
111	Ball bearing	Designation: 6206.2Z.C3.SYN
153	Angular-contact bearing	Dismoston 00
157	O-ring	Diameter: 62
		Material type: NBR
		Thickness: 3
158	Waved washer	
	Kit, end shield	96279790 1
156a	End shield	
157	O-ring	Diameter: 62
		Material type: NBR
		Thickness: 3
158	Waved washer	
159a	Seal ring	
	Kit, eyebolt	96279825 1
189	Eyebolt	
	Kit, fan	96279758 1
156	Fan	
159c	Seal ring	
159a	Seal ring	
	Kit, fan cover	96279756 1
151b	Label	33213100 1
1515	Fan cover	
152	Pan head thread forming screw	
132	_	06270794 1
1565	Kit, flange	96279784 1
156b	Flange	
159.c	Seal ring	
186	Drain plug	000000000000000000000000000000000000000
40-	Kit, retaining ring	96279801 1
187	Retaining ring	
188	Retaining ring	
	Kit, shaft seal	96279764 1
159d	Seal ring	
159c	Seal ring	
	Kit, staybolts	96279793 1
181	Pan head staybolt	
	Kit, terminal board	96279769 1
173a	Base	
173	Pan head thread forming screw	Designation: COMBI TORX T25
176	Slot cheese head screw	Designation: COMBI TORX T25
		Length (mm): 10
		Thread: M5
176	Terminal	
176	Connecting piece	
176	Wire clamp	
176	Terminal board	
177	Pan head screw	
	Kit, terminal box	96279772 1
164	Terminal box cover w/gasket	30213112 1
166	Pan head thread forming screw	
1		00404292 4 -
	Flange	99104283 1 p
2a	Pump head	98770239 1 p
3	Bulk, Top intermediate chamber (3 pcs)	96538971 1 p
3	Top intermediate chamber	98371105 1 p
4a	Bulk, Intermediate chamber cpl. (10 pcs)	96538842 1 p
3	Bulk, Intermediate chamber (3 pcs)	96535086 1
4a	Intermediate chamber cpl.	98371109 1 p



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
-	4	Bulk, Intermediate chamber cpl. (10 pcs)			96538817	4	pcs
	65	Bulk, Retainer for upper seal ring (20 pcs)			976995	527 1	1
	65	Retainer for upper seal ring			96587913 1		1
+	4	Intermediate chamber cpl.			98371107	4	pcs
	6	Base			98681111	1	pcs
	7.a	Bulk, Combi Slot Torx screw (1000 pcs)			96886324	4	pcs
	10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473	1	pcs
				Length (mm): 26			
+	18	Bulk, Air vent screw (5 pcs)			96547461	1	pcs
+	18	Air vent screw			95061351	1	pcs
	25	Bulk, Plug (10 pcs)			96536013	1	pcs
	25a	Bulk, Drain plug (10 pcs)			96535881	1	pcs
	26a	Strap cpl.			98852388	2	pcs
	26.c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	2	pcs
				Thickness: 1,6			
	26.c	Washer		Designation: DIN 125A	96586880	2	pcs
				Thickness: 1,6			
	26	Staybolt			98450265	4	pcs
	32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	4	pcs
				Internal diameter: 17			
				Outer diameter: 30			
				Thickness: 3			
	36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480	4	pcs
	37	Bulk, O-ring (20 pcs)			96538857	2	pcs
	38a	Bulk, O-ring (10 pcs)		Diameter: 5,3	99198791	1	pcs
				Material type: EPDM			
				Thickness: 2,4			
	38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	pcs
				Material type: EPDM			
				Thickness: 2,4			
	38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
				Material type: EPDM			
				Thickness: 2,4			
	44b	Inlet part			98814595	-	pcs
+	44a	Inlet part cpl.			98818924		pcs
	47	Bulk, Bearing ring (10 pcs)			96538795		pcs
+	49	Bulk, Impeller cpl. (5 pcs)			98394287		pcs
+	49	Impeller cpl.			98394448		pcs
+	51	Shaft, spline, cpl.			98368613		pcs
	55	Outer sleeve			98450263		pcs
	60	Bulk, Spring (20 pcs)			96538963		pcs
	64d	Bulk, Spacing bush (20 pcs)		1 (1 () (2 =	96538947		pcs
	64c	Bulk, Spacing pipe (5 pcs)		Length (mm): 12.7	97980241		pcs
	64b	Bulk, Spacing bush (20 pcs)		Length (mm): 5.00	96535098		pcs
	64a	Bulk, Spacing pipe (10 pcs)		Internal diameter: 17,5	98417487	1	pcs
	C4	Dulle Charing sine (20 =)		Length (mm): 17	00505407	4	
	64	Bulk, Spacing pipe (20 pcs)		Length (mm): 43.6	96535107		pcs
	66	Bulk, Wedge lock washer (10 pcs)		Thread: MO	96536157		pcs
<u> </u>	67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008		pcs
	69	Bulk, Spacing bush (20 pcs)			96538949		pcs
	76a	Bulk, Rivet (100 pcs)		Material trans. LICOT	96620489		pcs
	105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914	1	pcs